

University of Washington & Washington State University

Washington's Research Institutions

Presentation to the
Higher Education Coordinating Board
July 2008



UW & WSU – Multi-campus, research institutions serving the entire state

University of Washington



Seattle



Washington State University



Pullman



UW – Bothell & WSU – Spokane

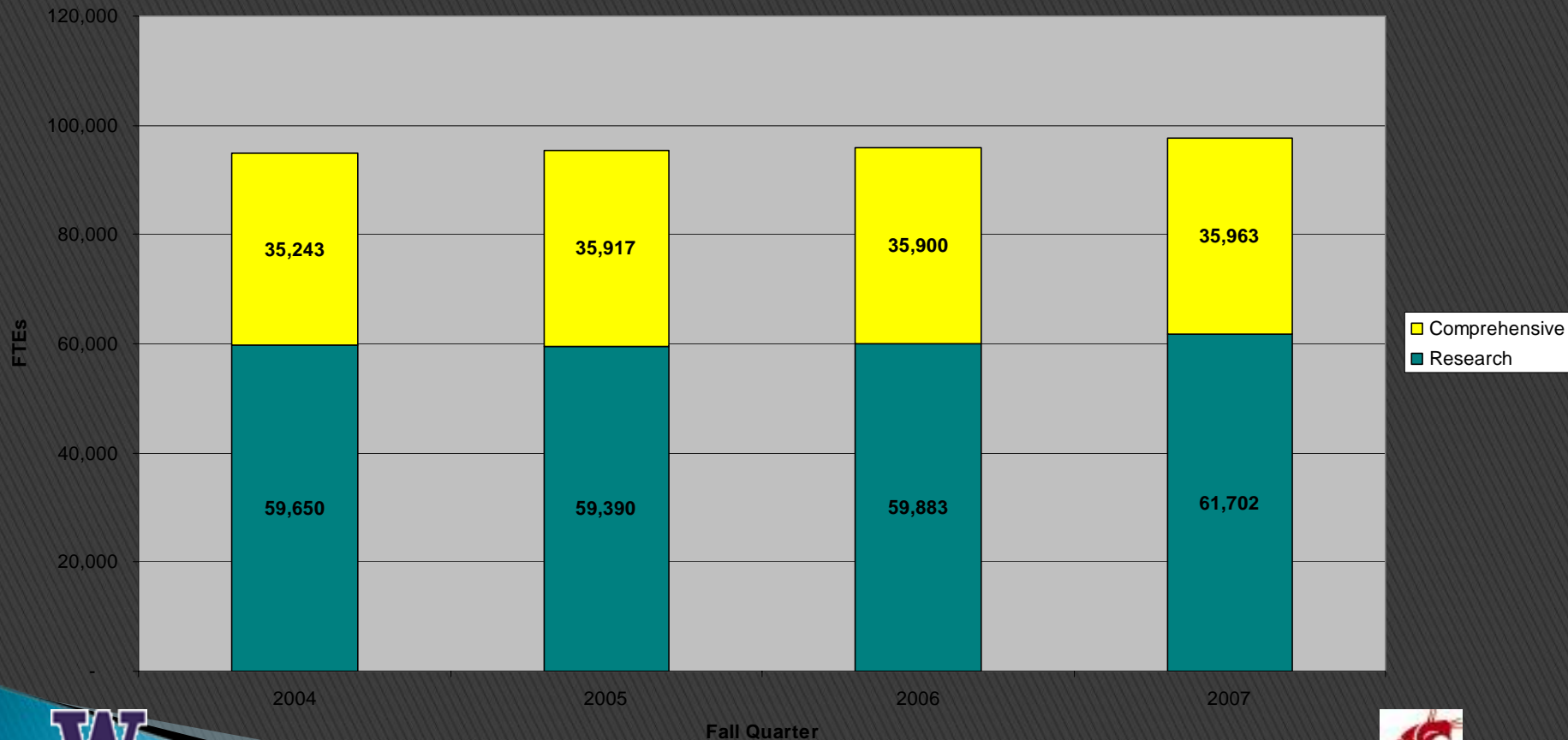


UW – Tacoma & WSU – Tri-Cities & Vancouver



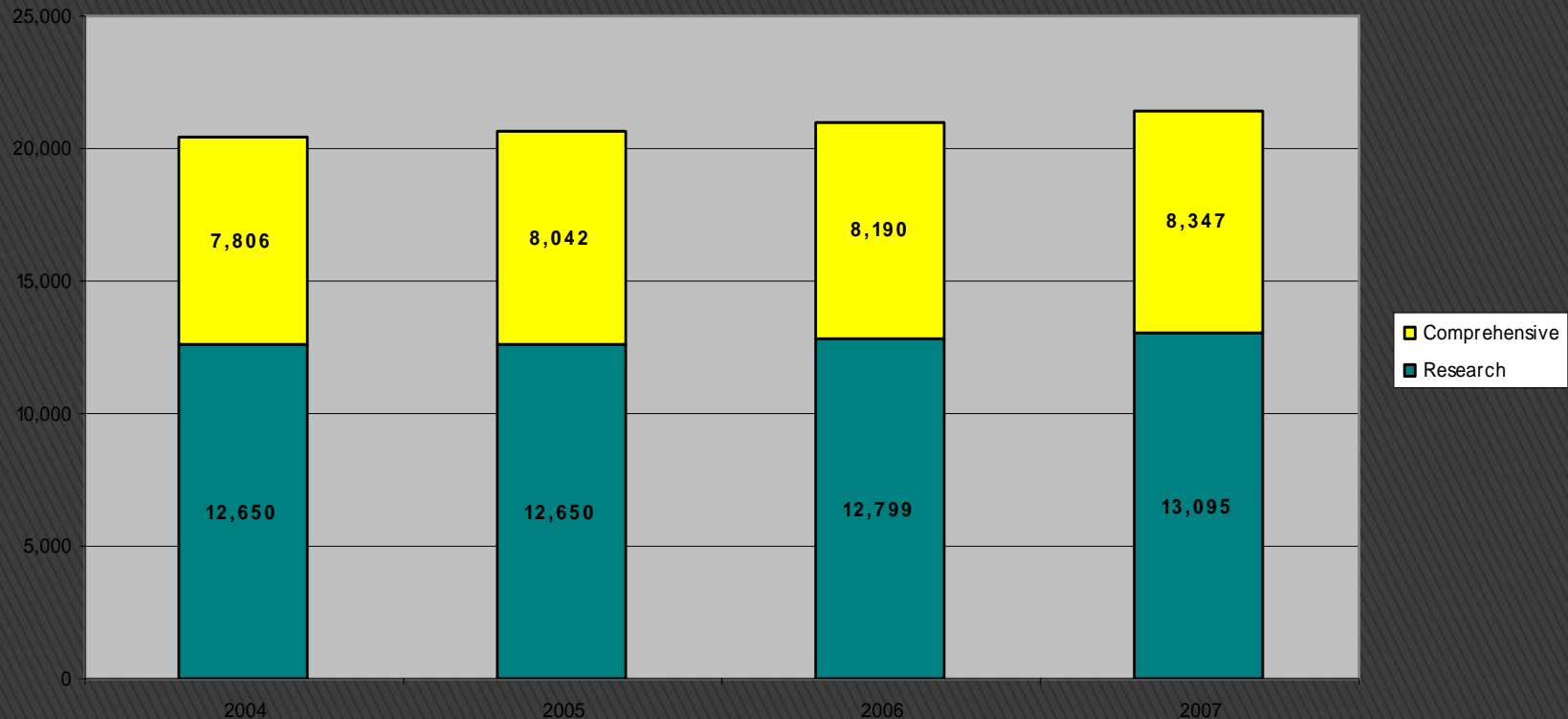
UW & WSU – Together, serving the majority of the state's public 4-year college students

Fall FTEs: Research & Comprehensive Public Baccalaureates



UW & WSU – Providing quality education for people

Bachelors Degrees Awarded: Comprehensive and Research Public Baccalaureates



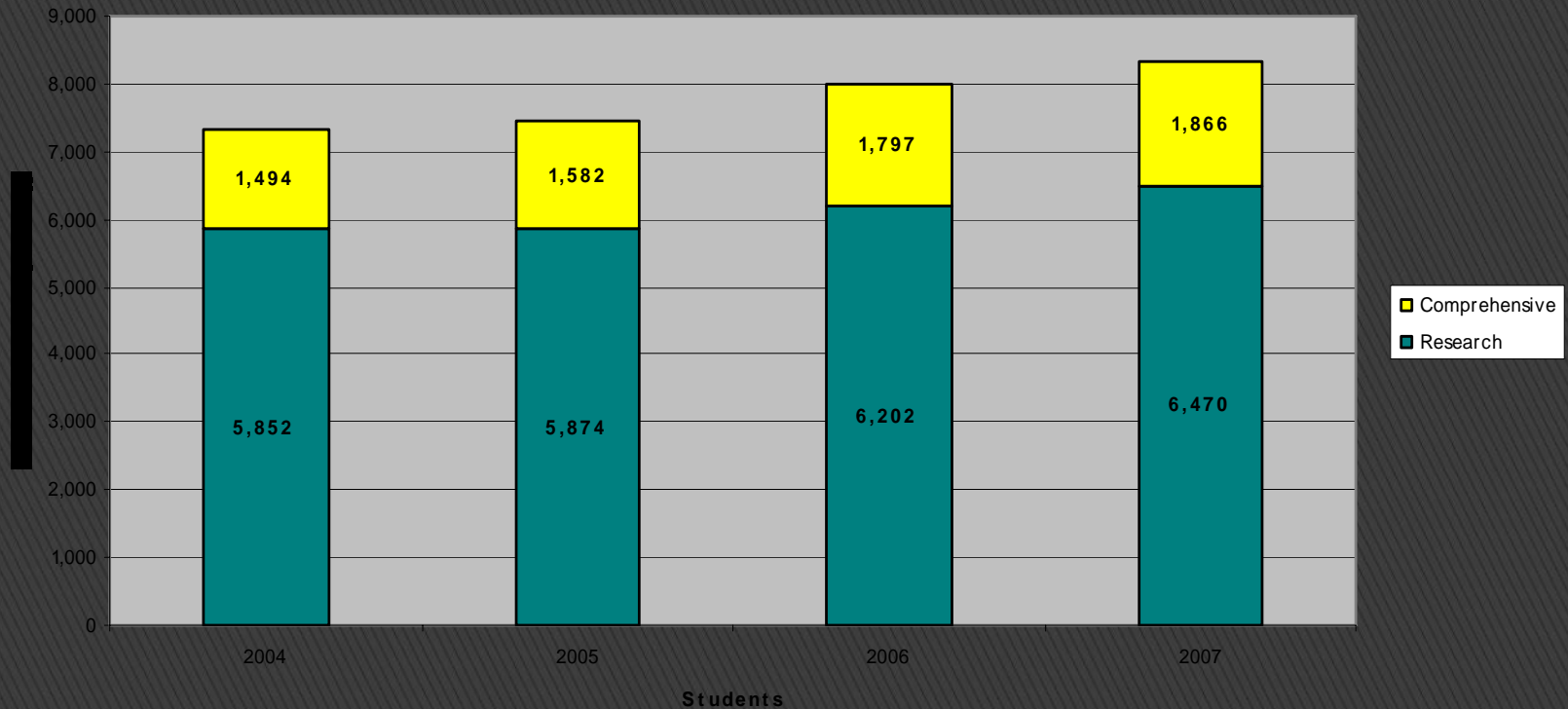
UW & WSU– Graduate and Professional degrees

Graduate & Professional Degrees Earned: Research & Comprehensive Public Baccalaureates



UW & WSU – Educating people for a world economy

Areas of Critical State Need: Research & Comprehensive Public Baccalaureates



UW & WSU – Conducting world-renowned, relevant research *every day*

University of Washington

Washington State University

UW scientist tries to give robots a human touch

Yoky Matsuoka, professor of computer sciences and engineering, aims to build a better robot by copying the wisdom of the human body.

Penguins setting off sirens over health of world's oceans

Like the proverbial canary in the coal mine, penguins are sounding the alarm for potentially catastrophic changes in the world's oceans, and the culprit isn't only climate change, says a UW conservation biologist.

UW Medical Center using surgical checklist to improve safety

The University of Washington Medical Center is one of eight hospitals worldwide test-driving a surgical checklist the World Health Organization (WHO) unveiled Wednesday.

A new approach to computer interface design

Off-the-shelf designs are especially frustrating for the disabled, the elderly and anybody who has trouble controlling a mouse. A new approach to design would put each person through a brief skills test and then generate a mathematically-based version of the user interface optimized for his or her vision and motor abilities.

WSU preventing infectious disease

Dr. Wendy Brown's research looks at disease-causing bacteria that cause \$500 million annual loss worldwide from cattle disease.

Next-generation biofuels through plants

Institute of Biological Chemistry faculty are designing plants that include more of what it takes to replace petrochemicals in fuels, plastics and other applications

WSU innovative clean technologies

Improving sustainability of the built-environment as well as furthering the 'smart grid' are among technologies lead by WSU engineers

Feeding the world

Global demand for productive and sustainable food systems is accelerating development of better grains, fruits, and production systems for Washington and the world



UW– Entrepreneurial Universities

- \$105 million from the Bill & Melinda Gates Foundation to create the Institute for Health Metrics and Evaluation, a new research center that will conduct independent, rigorous evaluations of health programs worldwide.
- \$3.5 million from the Department of Energy for the Nuclear Physics Lab for Experimental Nuclear Physics Research
- \$3.7 million from the National Center for Research Resources (NCRR) for the UW Multidisciplinary Clinical Research Training
- \$8 million from the National Center for Research Resources (NCRR) for the Institute for Translational Health Sciences (ITHS)
- \$10.8 million from NIH's National Human Genome Research Institute awarded as part of a national effort to expand the Encyclopedia of DNA Elements (ENCODE) project.
- \$1.35 million in institutional startup funding to launch the Indigenous Wellness Research Institute.
- \$2.2 million to develop detailed engineering specifications for a cabled underwater research facility to be built off the coast of Washington and Oregon on the Juan de Fuca tectonic plate.
- \$29.7 million from the Health Resources and Service Administration for international AIDS education and training through the UW Dept. of Global Health.
- \$10.2 million from the National Institutes of Health (NIH) to develop tissue engineering and stem cell therapies for repairing damaged heart
- \$3 million from the National Science Foundation (NSF) to help build a river-to-ocean environmental observatory for the Pacific Coast and Columbia River.
- \$20 million from the Bill & Melinda Gates Foundation to establish an interdisciplinary Dept. of Global Health.



WSU – Entrepreneurial Universities

- \$25 million launches School of Global Animal Health supporting global leadership in infectious diseases at the animal–human interface from the Bill & Melinda Gates Foundation.
- \$4.0 million of a \$9.9 million grant from the National Institutes to study the diagnosis, treatment and prevention of zoonotic infectious diseases—or those animal diseases capable of infecting humans.
- \$4.6 million from the National Science Foundation understanding how vegetable oils from crops can provide a renewable energy source.
- \$3.7 million, to be awarded soon, from the National Science Foundation to address the special challenges associated with professional women working in small, rural communities related to science, technology, engineering, and mathematics.
- \$3.5 million of a \$12 million grant from the United States Agency for International Development to help the Afghans rebuild their higher education infrastructure.
- \$5.6 million from the United States Department of Agriculture (via the Washington State Department of Social and Health Services) for the state's Food Nutrition Program.
- \$8.3 million from the Department of Education where seven school districts, 3 higher education institutions and 9 community and business organizations have come together to develop the Harvest of Hope GEAR UP Program to address the needs of low–income, at–risk students in the Columbia Basin of Washington State.
- Another \$11.2 million from the Department of Education where ten school districts, 2 higher education institutions and 8 community and business organizations have come together to develop the One Vision Partnership Program to address the needs of low–income, at–risk students in the Columbia Basin of Washington State.



UW & WSU – Common themes in our budget requests

- ▶ Excellent faculty and staff

5% annual salary increases



UW & WSU – Common themes in our budget requests

- ▶ Successful students

Adequate enrollment funding that continues to step up to the Global Challenge States



UW & WSU – Common themes in our budget requests

► Relevant research

Commonalities in our research agendas include global human and animal health and environment research and technology



UW & WSU – Common themes in our budget requests

- ▶ Safe campuses

Students, faculty, staff and the public deserve safe colleges and universities – our institutions are state treasures enjoyed by many

